Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (withdrawn) In a method for manufacturing TBO product comprising sequentially the steps of:
- (a) oxidizing the starting material N,Ndimethyl-p-phenylenediamine, in a first reaction mixture;
- (b) introducing a source of sulfur-containing nucleophile into said first reaction mixture, to form a first intermediate, substituted S-phenyl thiosulfate;
- (c) further oxidizing and condensing said first intermediate with o-toluidine, to form a second intermediate, substituted S-indaminyl thiosulfate;
- (d) further oxidizing said second intermediate, to form a TBO-containing reaction product in a third reaction mixture;
- (e) introducing a TBO-complexing agent into at least one of said reaction mixtures; and
- (f) separating the TBO-containing reaction product from said third reaction mixture; the improvement comprising sequentially:

- (a) oxidizing a starting material, comprised of at least one compound selected from the group consisting of N,N-dimethyl-p-phenylenediamine and N-dimethyl-p-phenylenediamine, in the presence of o-toluidine in a first reaction mixture to form a first intermediate, an indamine, without forming S-phenyl thiosulfate; and then
- (b) introducing a source of sulfur-containing nucleophile into said first reaction mixture form a second intermediate, S-indaminyl thiosulfate.
- 2. (currently amended) A $_{\mbox{\scriptsize new}}$ composition $_{\mbox{\scriptsize of-matter},}$ comprising:

 $ext{TBO}$ toluidine blue $ext{O}_7$ which has the having a ring methyl group at the C-2 position, and having the structure

wherein the toluidine blue 0 is as at least 73% by weight of the total organic dye content of said composition.

- (withdrawn) A process for manufacturing the composition of Claim 2 including the steps of :
 - (a) synthesizing an indamine; and
 - (b) synthesizing an S-indaminyl thiosulfate;
- 4. (withdrawn) The process of Claim 4 wherein said step of synthesizing an indamine further comprises the step of oxidizing a solution of o-toluidine and a solution of N,N-dimethyl-phenylenediamine in the presence of an acid and oxidizing agent.
- 5. (withdrawn) A method for identification of dysplastic tissue comprising: the step of applying to human tissue the TBO product of Claim 2.
- 6. (withdrawn) A method for treating dysplastic tissue comprising: the step of applying to human tissue the TBO product of Claim 2.
- 7. (withdrawn) The method for treating dysplastic tissue of Claim 6 further comprising:

modifying the incidence of light to control phototoxic effects.

- 8. (withdrawn) The method for treating dysplastic tissue of Claim 6 further comprising: the step of mixing a chemotherapeutic agent with said TBO product of Claim 4.
- 9. (currently amended) A $\frac{1}{1}$ new-composition of $\frac{1}{1}$ matter, comprising:

the an N-demethylated derivative of TBO, toluidine blue 0 in which the N demethylated derivatives have having the a ring methyl group at the C-2 position, and having the structure

$$\begin{bmatrix} H_1C & H_2 \\ \vdots & \vdots & \vdots \\ H_NC & H_N \end{bmatrix} CT$$

wherein the N-demethylated derivative of toluidine blue O comprises at least 73% by weight of the total organic dye content of said composition.

- 10. (withdrawn) A process for manufacturing the composition of Claim 9 including the steps of :
 - (a) synthesizing an indamine; and
 - (b) synthesizing an S-indaminyl thiosulfate;
- 11. (withdrawn) The process of Claim 11 wherein said step of synthesizing an indamine further comprises the step of oxidizing a solution of o-toluidine and a solution of N-dimethyl-pphenylenediamine in the presence of an acid and oxidizing agent.
- 12. (withdrawn) A method for identification of dysplastic tissue comprising: the step of applying to human tissue the TBO product of
- 13. (withdrawn) A method for treating dysplastic tissue comprising: the step of applying to human tissue the TBO product of
- 14. (withdrawn) The method for treating dysplasttc tissue of Claim 13 further comprising:

Claim 9

Claim 9.

modifying the incidence of light to control phototoxic effects.

- 15. (withdrawn) The method for treating dysplastic tissue of Claim 13 further comprising: the step of mixing a chemotherapeutic agent with said TBO product of Claim 9.
- 16. (currently amended) A $\frac{1}{1}$ new composition $\frac{1}{1}$ of $\frac{1}{1}$ matter, comprising:
- (a) TBO, toluidine blue O, which has the having a ring methyl group at the C-2 position and having the structure,

and

 $\underline{(b)}$ the \underline{an} N-demethylated derivative of \underline{TBO} toluidine blue \underline{O} having the \underline{a} ring methyl group at the C-2 position \underline{and} having the structure,

in which said TBO (a) and said N demethylated derivative
(b) comprises at least 70% by weight of the total organic dye content of said composition.

- 17. (withdrawn) A process for manufacturing the composition of Claim 16 including the steps of :
 - (a) synthesizing an indamine; and
 - (b) synthesizing an S-indaminyl thiosulfate;
- 18. (withdrawn) The process of Claim 17 wherein said step of synthesizing an indamine further comprises the step of oxidizing a solution of o-toluidine and a solution of N,N-dimethyl-p-phenylenediamine and N-dimethyl-p-phenylenediamine in the presence of an acid and oxidizing agent.

- 19. (withdrawn) A method for identification of
 dysplastic tissue comprising:
 the step of applying to human tissue the TBO product of
 Claim 16
- 20. (withdrawn) A method for treating dysplastic tissue comprising:
 the step of applying to human tissue the TBO product of
- 21. (withdrawn) The method for treating dysplastic tissue of Claim 20 further comprising: modifying the incidence of light to control phototoxic effects.
- 22. (withdrawn) The method for treating dysplastic tissue of Claim 20 further comprising: the step of mixing a chemotherapeutic agent with said TBO product of Claim 16.
- 23. (withdrawn) In an HPLC method for analysis of a TBO dye product, said method including:
 - (a) forming a TBO sample solution,

- (b) forming a mobile phase comprising a watersoluble salt of an organic acid,
- $\mbox{(c)} \quad \mbox{equilibrating an HPLC column with the mobile} \\ \mbox{phase flow, and} \\$
- $\mbox{(d)} \quad \mbox{injecting the sample solution into the HPLC} \\ \mbox{column,} \label{eq:column}$

the improvement for identifying sample dye components and for assaying and determining the purity of said sample, said improvement comprising:

forming said mobile phase as a composition including heptanesulfonic acid: and

forming a second mobile phase composition comprising 50% alcohol by volume.